



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 SEL15 UV FA 935 @ 200MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-007A (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFR G2 24 SEL15 UV FA 935

[LUMINAIRE] Retrofit kit installed in an A.L.P. EL-2x4-23-2 2x4 housing,

[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.

[LAMP] Two LS3873A7_3500_90R 3500K 48 LED boards

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 200mA

[OTHER] 120.0Vac, 60.00Hz

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	10.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	1.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	691	753	812
55	635	734	833
65	569	729	883
75	477	748	988
85	322	657	681

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	183.51	N.A.	12.60
0-30	387.31	N.A.	26.60
0-40	630.22	N.A.	43.30
0-60	1110.95	N.A.	76.30
0-80	1420.24	N.A.	97.50
0-90	1456.25	N.A.	100.00
10-90	1408.57	N.A.	96.70
20-40	446.71	N.A.	30.70
20-50	697.41	N.A.	47.90
40-70	666.70	N.A.	45.80
60-80	309.28	N.A.	21.20
70-80	123.32	N.A.	8.50
80-90	36.02	N.A.	2.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1456.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.68
10-20	135.83
20-30	203.80
30-40	242.91
40-50	250.70
50-60	230.04
60-70	185.97
70-80	123.32
80-90	36.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

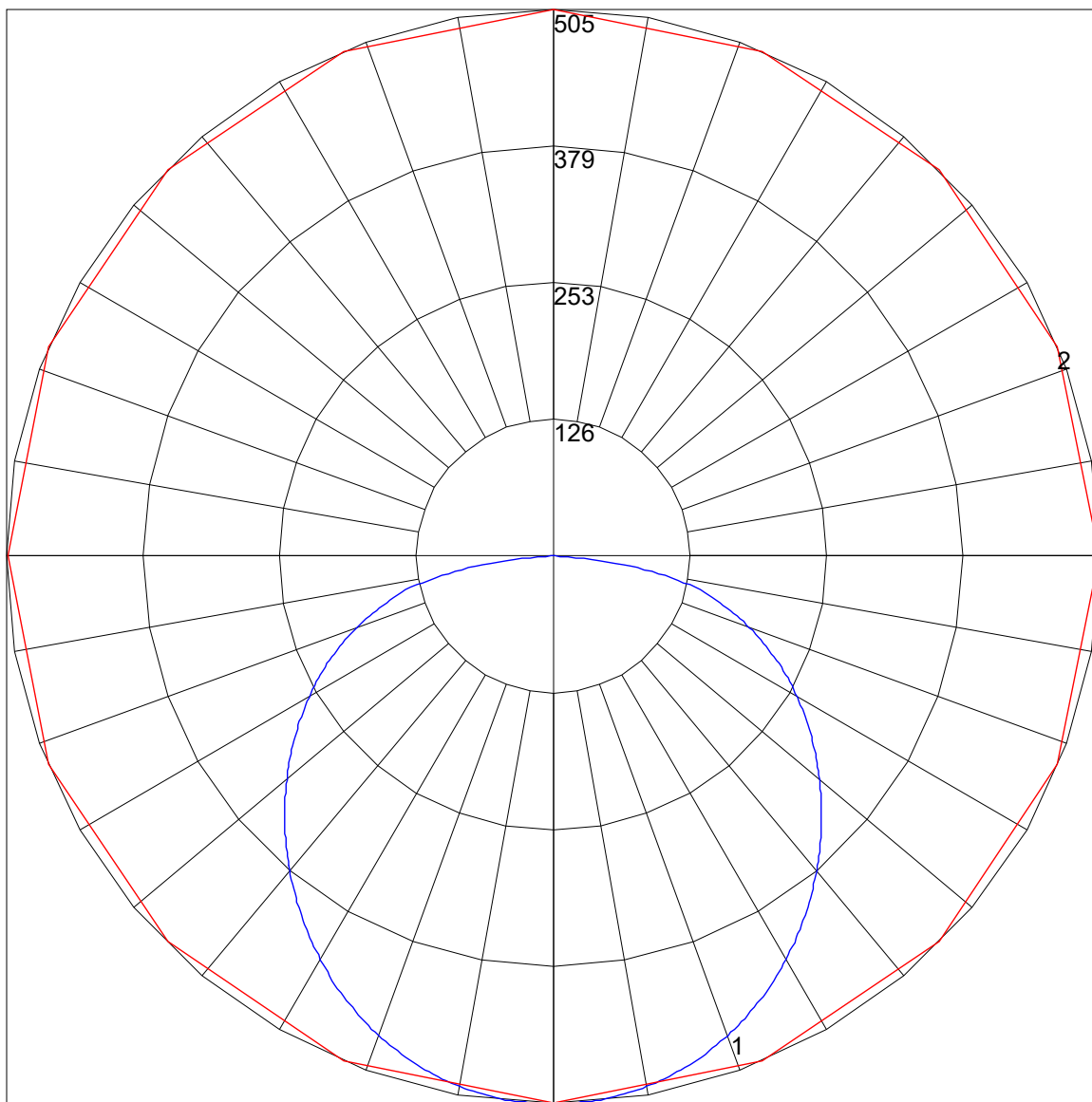
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	10.2	11.8	10.5	12.2	12.5	11.8	13.5	12.2	13.8	14.1
	3H	11.9	13.4	12.3	13.7	14.1	14.2	15.7	14.6	16.0	16.4
	4H	12.5	14.0	12.9	14.3	14.7	15.2	16.7	15.6	17.0	17.4
	6H	13.0	14.3	13.4	14.7	15.1	16.2	17.5	16.6	17.9	18.2
	8H	13.1	14.4	13.5	14.8	15.2	16.5	17.7	16.9	18.1	18.5
	12H	13.2	14.4	13.6	14.8	15.2	16.6	17.8	17.0	18.2	18.6
4H	2H	11.1	12.5	11.5	12.9	13.2	12.4	13.8	12.7	14.1	14.5
	3H	13.1	14.3	13.5	14.7	15.1	15.0	16.2	15.4	16.6	17.0
	4H	13.8	14.9	14.3	15.3	15.8	16.2	17.3	16.7	17.7	18.2
	6H	14.4	15.4	14.8	15.8	16.3	17.3	18.3	17.8	18.7	19.2
	8H	14.6	15.5	15.1	15.9	16.4	17.7	18.6	18.2	19.0	19.5
	12H	14.7	15.5	15.2	16.0	16.5	17.9	18.7	18.4	19.2	19.7
8H	4H	14.5	15.4	15.0	15.8	16.3	16.5	17.4	17.0	17.9	18.3
	6H	15.3	16.0	15.7	16.5	17.0	17.8	18.6	18.3	19.1	19.5
	8H	15.5	16.2	16.0	16.7	17.2	18.3	18.9	18.8	19.5	19.9
	12H	15.7	16.3	16.2	16.8	17.4	18.6	19.2	19.1	19.7	20.2
12H	4H	14.6	15.4	15.1	15.9	16.4	16.6	17.4	17.0	17.9	18.3
	6H	15.5	16.2	16.0	16.6	17.1	17.9	18.6	18.4	19.0	19.6
	8H	15.8	16.4	16.3	16.9	17.5	18.4	19.0	18.9	19.5	20.0

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 505.114 Located At Horizontal Angle = 90, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)